WHAT IS CLAIMED IS:

1. A vascular filter, comprising:

a filter body sized for deployment in a blood vessel; and

an agitation member movably coupled to the filter body;

wherein movement of the agitation member acts to break apart particles captured within the filter body.

- 2. The vascular filter of Claim 1, wherein the filter body is provided with anchoring elements for engagement with an inner wall of the blood vessel.
- 3. The vascular filter of any of Claims 1 or 2, further comprising a flow-receiving member for causing the agitation member to rotate relative to the filter body.
- 4. The vascular filter of Claim 3, wherein the agitation member is capable of reversing direction.
- 5. The vascular filter of any of Claims 1–4, further comprising an elongate drive mechanism configured for removable attachment to the agitation member for causing the agitation member to rotate.
- 6. The vascular filter of any of Claims 1–4, further comprising a clutch mechanism such that the agitation member only moves relative to the filter body when a particle is trapped within the filter body.
- 7. The vascular filter of any of Claims 1–6, wherein the filter body further comprises inwardly protruding members that cooperate with the agitation member to break down the particle.
- 8. The vascular filter of any of Claims 1-7, wherein the filter body is self-expanding.
- 9. The vascular filter of any of Claims 1–7, wherein the filter body is balloon expandable.
- 10. The vascular filter of any of Claims 1–9, wherein the filter body is coated with an anti-coagulent material.
- 11. The vascular filter of any of Claims 1-10, wherein the agitation member vibrates.
- 12. The vascular filter of Claim 11, wherein the agitation member vibrates at ultrasonic frequencies.
- 13. The vascular filter of any of Claims 1-12, further comprising an energy storage device coupled to the agitation member for producing movement of the agitation member.
- 14. The vascular filter of any of Claims 1–10, wherein the agitation member emits a pressurized fluid flow.

- 15. The vascular filter of any of Claims 1-10, further comprising an aspiration catheter.
- 16. A method of making a vascular filter of any of Claims 1-14, the method comprising:

providing a filter body sized for capturing particles from the blood; and coupling an agitation member to the filter body, wherein the agitation member is rotatable relative to the filter body.

17. A method of filtering particles from blood in a blood vessel, comprising: providing a vascular filter of any of Claims 1–14;

collapsing the vascular filter;

inserting the vascular filter into a lumen of a delivery catheter;

introducing the delivery catheter into the blood vessel;

deploying the vascular filter from a distal end of the delivery catheter at a desired location within the blood vessel; and

causing the agitation member to move relative to the filter body for emulsifying a particle trapped within the filter body.